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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,481 12/31/2003		Mark McDonald	30320/15126	9859
4743	7590 10/04/2006		EXAM	INER
	L, GERSTEIN & BOF	NGUYEN, DUNG T		
233 S. WACKER DRIVE, SUITE 6300				
SEAR'S TOWER			ART UNIT	PAPER NUMBER
CHICAGO, IL 60606			2828	

DATE MAILED: 10/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

'		N)			
	Application No.	Applicant(s)			
	10/750,481	MCDONALD, MARK			
Office Action Summary	Examiner	Art Unit			
	Dung (Michael) T. Nguyen	2828			
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet with th	ne correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 1.136(a). In no event, however, may a reply but d will apply and will expire SIX (6) MONTHS ate, cause the application to become ABAND	ION. se timely filed from the mailing date of this communication. DNED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
,—	, —				
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under	' Ex рапе Quayle, 1935 C.D. 11	, 453 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1 and 3-20 is/are pending in the approach 4a) Of the above claim(s) is/are withdrest 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,3-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.				
Application Papers					
9) The specification is objected to by the Examination 10) The drawing(s) filed on is/are: a) and according a control of the second of	ccepted or b) objected to by the drawing(s) be held in abeyance. ection is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Appli iority documents have been rec au (PCT Rule 17.2(a)).	cation No eived in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) Report Notice of Colonia (PTO/SB/08)	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform	il Date			
Paper No(s)/Mail Date 66/01/04 , 06/01/05	6) 🔲 Other:				

Application/Control Number: 10/750,481

Art Unit: 2828

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-8, 11-14, 16-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Jin (2002/0054614).

With respect to claims 1, 4, 6, and 11, Fig. 1 shows a first filter element (etalon) 1 having a first angular sensitivity to the reference axis and for tuning a wavelength of the light in response to changes in an angle of incidence of the light upon the first filter element; and

a second filter element (etalon) 2 having a second angular sensitivity to the reference axis for tuning the wavelength in response to changes in an angle of incidence of the light upon the second filter element, wherein the second angular sensitivity substantially cancels the first angular sensitivity (since the first filter has a positive angular sensitivity and the second filter has a negative angular sensitivity with respect to the reference axis in Fig.1, therefore the second angular sensitivity substantially cancels the first angular sensitivity), wherein the wavelength of the light is not tuned by simultaneous rotation of the first and second filter elements relative to the reference axis (para.0037).

With respect to claim 5, para.0037 discloses the first acute angle is equal to the second acute angle.

With respect to claims 7-8, para.0035, lines 10-12 discloses varying filter substrate temperature (i.e, resistive element).

With respect to claim 12, para.0035, lines 4-5 discloses a support (bulk electro-optical materials).

With respect to claim 13, Fig. 1 shows a gain medium (LD); a laser cavity for receiving a light from the gain medium; and a filter apparatus disposed to receive the light at an angle of incidence, the filter apparatus and the laser cavity defining a reference axis, the filter apparatus (first and second filters) having a first angular sensitivity to the reference axis and a second angular sensitivity to the reference axis that substantially cancels the first angular sensitivity (since the first filter has a positive angular sensitivity and the second filter has a negative angular sensitivity with respect to the reference axis in Fig. 1, therefore the second angular sensitivity substantially cancels the first angular sensitivity) wherein a wavelength of light produced by the laser cavity is substantially independent of the angle of incidence (para 0037).

With respect to claim 14, Fig.1 shows the filter apparatus is within the laser cavity (from the rear facet of the laser diode to (lens/mirror).

Application/Control Number: 10/750,481

Art Unit: 2828

With respect to claim 16, Fig. 1 shows the filter apparatus comprises a first etalon forming a first angle with the reference axis and a second etalon forming a second angle with the reference axis that is equal and opposite to the first angle (para.0037).

With respect to claim 17, para.0035 discloses the filter apparatus is a temperature tuning apparatus.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jin (2002/0054614) in view of Handa (6008675).

With respect to claim 9, Jin discloses all limitations of the claim except for the detector.

Handa teaches in fig.13 a detector 77.

it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Jin what is taught by Handa to monitor the laser wavelength.

With respect to claim 10, Jin discloses the tunable characteristic is wavelength (para.0030).

Application/Control Number: 10/750,481

Art Unit: 2828

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jin (2002/0054614) in view of McDonald et al. (2002/0172239). Jin discloses all limitations of the claims except for the filter apparatus is external to the laser cavity.

McDonald teach the filter apparatus is external to the laser cavity in para.0064.

it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Jin what is taught by McDonald to alter the configuration of the filter apparatus disposed external or internal to the laser cavity.

Claims 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jin (2002/0054614) in view of Handa (6008675). Jin discloses all limitations of the claims except for the receiver and the transmitter.

Handa teaches in Fig. 13 the receiver 72 and the transmitter 71.

it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Jin what is taught by Handa to be used in the optical transmission system (col.12, 1.30-31).

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung (Michael) T Nguyen whose telephone number is (571) 272-1949. The examiner can normally be reached on 8:30 - 17:00.

Application/Control Number: 10/750,481 Page 6

Art Unit: 2828

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Min Harvey can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

Michael Dung Nguyen

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